**CLAIMS** 

1. (Original) A method comprising:

applying at least one of a capitalization rule and a spacing rule to a word

obtained from compressed electronic program quide (EPG) data, the compressed EPG

data including a plurality of word encoding values and a plurality of character encoding

values, wherein each of the capitalization and spacing rules is based on an

arrangement, in the compressed EPG data, of one said word encoding value that

references the obtained word with respect to at least one of:

one or more said character encoding values; and

one other said word encoding value; and

outputting the obtained word to which at least one of the capitalization rule and

the spacing rule was applied.

2. (Original) A method as described in claim 1, wherein each said

capitalization rule specifies capitalizing a first character included in the obtained word

based upon a condition selected from the group consisting of:

if said word encoding value that references the obtained word in the compressed

EPG data immediately follows one said character encoding value in the compressed

EPG data that indicates an end of a sentence or an end of a previous data string; and

if said word encoding value that references the obtained word in the compressed

EPG data is ordered as a first encoding value in a compressed data string included in

the compressed EPG data.

3. (Original) A method as described in claim 1, wherein the spacing rule is

selected from the group consisting of:

a first spacing rule that specifies if said word encoding value that references the

obtained word directly follows another said word encoding value, then a single space is

inserted between the obtained word and a word referenced by the other said word

encoding value:

a second spacing rule that specifies if said word encoding value that references

the obtained word directly precedes one said character encoding value that references

a letter or a number, then a space is inserted after the obtained word; and

a third spacing rule that specifies if said word encoding value that references the

obtained word directly follows one said character encoding value that references a letter

or a number, then a space is inserted before the obtained word.

4. (Original) One or more computer-readable media comprising computer-

executable instructions that, when executed, perform the method as recited in claim 1.

5. (Original) A method comprising:

decompressing compressed electronic program guide (EPG) data that includes a

plurality of word encoding values and a plurality of character encoding values, the

compressed EPG data being decompressed by:

comparing one or more of the plurality of word encoding values with word

encoding values in a word table to find a match, wherein:

each said word encoding value in the word table references a word

included in the word table; and

for each said match, obtaining the word referenced by the

matching word encoding value from the word table;

applying at least one of a capitalization rule and a spacing rule to the

obtained word that is based on an arrangement, in the compressed EPG data, of

one said word encoding value that references the obtained word with respect to

at least one of:

one or more said character encoding values; and

one other said word encoding value; and

outputting the obtained word to which at least one of the capitalization rule

and the spacing rule was applied.

6. (Original) A method as described in claim 5, wherein each said

capitalization rule specifies capitalizing a first character included in the obtained word

based upon a condition selected from the group consisting of:

if said word encoding value that references the obtained word in the compressed

EPG data immediately follows one said character encoding value in the compressed

EPG data that indicates an end of a sentence or an end of a previous data string; and

if said word encoding value that references the obtained word in the compressed

EPG data is ordered as a first encoding value in a compressed data string included in

the compressed EPG data.

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7. (Original) A method as described in claim 5, wherein the spacing rule is

selected from the group consisting of:

a first spacing rule that specifies if said word encoding value that references the

obtained word in the compressed EPG data directly follows another said word encoding

value in the compressed EPG data, then a single space is inserted between the

obtained word and a word referenced by the other said word encoding value;

a second spacing rule that specifies if said word encoding value that references

the obtained word in the compressed EPG data directly precedes one said character

encoding value in the compressed EPG data that references a letter or a number, then

a space is inserted after the obtained word; and

a third spacing rule that specifies if said word encoding value that references the

obtained word in the compressed EPG data directly follows one said character encoding

value in the compressed EPG data that references a letter or a number, then a space is

inserted before the obtained word.

8. (Original) One or more computer-readable media comprising computer-

executable instructions that, when executed, perform the method as recited in claim 5.

9. (Original) A method comprising:

compressing electronic program guide (EPG) data that includes a plurality of

television programs, each said television program having one or more television

program characteristics, each said television program characteristic having a value,

each said value having one or more characters, the EPG data being compressed by:

comparing the one or more characters of each said value with one or

more words in a word table to find a match, wherein each said word in the word

table is referenced by a word encoding value in the word table, and for each said

match, replacing the matching one or more characters of each said value with

the word encoding value in the word table that references the matching word:

comparing the one or more characters of each said value that do not

match any of the words in the word table with one or more characters in a

character table to find a match, wherein the character table includes one or more

character encoding values, and wherein each said character encoding value

references one or more said characters in the character table, and for each said

match, replacing the matching one or more characters of each said value with

the character encoding value in the character table that references the matching

one or more characters; and

applying one or more spacing rules to the EPG data that are based on an

arrangement of each said word encoding value with respect to at least one of:

one said character encoding value; and

one other said word encoding value.

10. (Original) A method as described in claim 9, further comprising outputting

the EPG data to which the one or more spacing rules were applied.

11. (Original) A method as described in claim 9, wherein each said spacing

rule specifies removal of each said character encoding value from the EPG data that

Serial No.: 10/654,300 Atty Docket No.: MS1-1625US references a space based upon a condition selected from the group consisting of:

the character encoding value that references the space is disposed directly

between two said word encoding values;

the character encoding value that references the space directly follows one said

word encoding value and directly precedes one said character encoding value that

references a letter or a number in the character table; and

the character encoding value that references the space directly precedes one

said word encoding value and directly follows one said character encoding value that

references a letter or a number in the character table.

12. (Original) One or more computer-readable media comprising computer-

executable instructions that, when executed, perform the method as recited in claim 9.

13. (Withdrawn) A method comprising searching for a keyword in

compressed electronic program guide (EPG) data that includes a plurality of television

programs, each said television program having one or more encoding values, each said

encoding value encoding at least a portion of a value that describes a television

program characteristic, wherein the searching includes:

comparing the keyword with a plurality of words in a table, wherein the

table includes a plurality of word encoding values, each said word encoding

value referencing one said word in the table, and each said word encoding value

having a matching predetermined amount of bits, one to another, wherein:

when the keyword matches one of the plurality of words in the

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table, then examining encoding values in the compressed EPG data that

have the matching predetermined amount of bits to find the keyword; and

when the keyword does not match any of the plurality of words in

the table, then examining encoding values in the compressed EPG data

that do not have the matching predetermined amount of bits to find the

keyword; and

when one said value which describes one said television program

characteristic that includes the keyword is found, outputting the one said value

that includes the keyword.

14. (Withdrawn) A method as described in claim 13, wherein the encoding

values that do not have the matching predetermined amount of bits are character

encoding values.

15. (Withdrawn) A method as described in claim 13. wherein:

the encoding values that do not have the matching predetermined amount of

bits are character encoding values; and

the character encoding values have a second matching predetermined amount

of bits, one to another, that do not match the matching predetermined amount of bits of

the word encoding values.

16. (Withdrawn) A method as described in claim 13, wherein:

encoding values that do not have the predetermined amount of bits are

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character encoding values;

each of the character encoding values have eight bits; and

each of the word encoding values have twelve bits.

17. (Withdrawn) One or more computer-readable media comprising

computer-executable instructions that, when executed, perform the method as recited in

claim 13.

18. (Withdrawn) A method comprising:

analyzing EPG data that includes a plurality of television programs, each said

television program having one or more television program characteristics, each said

television program characteristic having a value, wherein one of the television program

characteristics is a program title:

assigning an event identifier, based on the analyzing, to each said television

program, wherein the event identifier includes:

a bin identifier selected from a plurality of bin identifiers based on a portion

of the value of the program title of a corresponding said television program; and

a unique identifier that is unique for each said television program, wherein

the unique identifier has a bin identifier that matches at least one other bin

identifier assigned to at least one other said television program; and

outputting the EPG data that has the assigned event identifiers.

19. (Withdrawn) A method as described in claim 18, wherein the event

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amount of broadcast time described by the EPG data.

20. (Withdrawn) A method as described in claim 18, wherein the event

identifier references the value of the corresponding said television program.

21. (Withdrawn) A method as described in claim 18, wherein each of the

plurality of bin identifiers are predefined to correspond to a unique range of characters

of the portion of the value of the program title.

22. (Withdrawn) A method as described in claim 18, wherein the event

identifier is described using eighteen bits, and includes:

six bits thereof utilized by the corresponding said bin identifier; and

twelve bits thereof utilized by the corresponding said unique identifier.

23. (Withdrawn) One or more computer-readable media comprising

computer-executable instructions that, when executed, perform the method as recited in

claim 18.

24. (Withdrawn) A method comprising:

searching EPG data that includes a plurality of television programs, each said

television program having a corresponding event identifier that identifies one or more

values that describe respective one or more television program characteristics, wherein

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each said event identifier includes a bin identifier and a unique identifier, the EPG data

is searched for the one or more values of a desired said television program by utilizing

the event identifier that corresponds to the desired said television program, the

searching being performed by:

locating a bin that matches the bin identifier included in the event

identifier; and

matching a unique identifier included in the event identifier with a unique

identifier included in the located bin, wherein the matching unique identifier in the

located bin maps to the one or more values of the desired said television

program: and

outputting the mapped one or more values.

25. (Withdrawn) An method as described in claim 24, wherein the event

identifiers are assigned for a predetermined amount of time that corresponds to an

amount of broadcast time described by the EPG data.

26. (Withdrawn) A method as described in claim 24, wherein the bin is

located from a plurality of bins, each said bin having one or more unique identifiers.

27. (Withdrawn) A method as described in claim 24, wherein:

the bin is located from a plurality of bins, each said bin having one or more

unique identifiers; and

each bin corresponds to a unique range of characters.

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28. (Withdrawn) A method as described in claim 24, wherein the event

identifier is described using eighteen bits, and includes:

six bits thereof utilized by the corresponding said bin identifier; and

twelve bits thereof utilized by the corresponding said unique identifier.

29. (Withdrawn) A method as described in claim 24, further comprising:

receiving the EPG data; and

storing the unique identifier included in the event identifier in one of a plurality of

bins, wherein the unique identifier is stored in the bin that matches the bin identifier

included in the corresponding event identifier.

30 (Withdrawn) One or more computer-readable media comprising

computer-executable instructions that, when executed, perform the method as recited in

claim 24

(Currently Amended)) A client device comprising:

a processor; and

a memory configured to maintain:

compressed electronic program guide (EPG) data that includes a plurality

of word encoding values and a plurality of character encoding values; and

an EPG application that is executable on the processor to:

apply at least one of a capitalization rule and a spacing rule to a

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word obtained from the compressed EPG data that is based on an arrangement of one said word encoding value that references the obtained word with respect to at least one of:

one or more said character encoding values; and one other said word encoding value: [[and]]

wherein each said capitalization rule specifies capitalizing a first character included in the obtained word based upon a condition selected from the group consisting of:

if said word encoding value that references the obtained word in the compressed EPG data immediately follows one said character encoding value in the compressed EPG data that indicates an end of a sentence or an end of a previous data string; and

if said word encoding value that references the obtained word in the compressed EPG data is ordered as a first encoding value in a compressed data string included in the compressed EPG data:

wherein the spacing rule is selected from the group consisting of:

a first spacing rule that specifies if said word encoding value that references the obtained word directly follows another said word encoding value, then a single space is inserted between the obtained word and a word referenced by the other said word encoding value:

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a second spacing rule that specifies if said word encoding

value that references the obtained word directly precedes one said

character encoding value that references a letter or a number, then

a space is inserted after the obtained word; and

a third spacing rule that specifies if said word encoding value

that references the obtained word directly follows one said

character encoding value in the EPG data that references a letter or

a number, then a space is inserted before the obtained word;

output the obtained word to which at least one of the capitalization

rule and the spacing rule was applied.

32. (Canceled)

33. (Canceled)

34. (Original) A client device as described in claim 31, further comprising a

tuner for receiving the compressed EPG data that is broadcast over a broadcast

network.

(Original) A client device comprising:

a processor; and

a memory configured to maintain:

compressed electronic program guide (EPG) data that includes a plurality

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of word encoding values and a plurality of character encoding values;

a word table including one or more words and one or more word encoding

values, each said word is referenced by one said word encoding value;

a character table including one or more characters and one or more

character encoding values, wherein each said character encoding value

references one or more said characters; and

an EPG application that is executable on the processor to decompress the

compressed electronic program guide (EPG) data by:

comparing one or more of the plurality of word encoding values with

the one or more word encoding values in the table to find a match, and for

each said match, obtaining the word referenced by the matching word

encoding value from the table:

applying at least one of a capitalization rule and a spacing rule to

the obtained word that is based on an arrangement, in the compressed

EPG data, of one said word encoding value that references the obtained

word with respect to at least one of:

one or more said character encoding values; and

one other said word encoding value; and

outputting the obtained word to which at least one of the

capitalization rule and the spacing rule was applied.

36. (Original) A client device as described in claim 35, wherein each said

capitalization rule specifies capitalizing a first character included in the obtained word

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based upon a condition selected from the group consisting of:

if said word encoding value that references the obtained word in the compressed

EPG data immediately follows one said character encoding value in the compressed

EPG data that indicates an end of a sentence or an end of a previous data string; and

if said word encoding value that references the obtained word in the compressed

EPG data is ordered as a first encoding value in a compressed data string included in

the compressed EPG data.

37. (Original) A client device as described in claim 35, wherein the spacing

rule is selected from the group consisting of:

a first spacing rule that specifies if said word encoding value that references the

obtained word in the compressed EPG data directly follows another said word encoding

value in the compressed EPG data, then a single space is inserted between the

obtained word and a word referenced by the other said word encoding value;

a second spacing rule that specifies if said word encoding value that references

the obtained word in the compressed EPG data directly precedes one said character

encoding value in the compressed EPG data that references a letter or a number, then

a space is inserted after the obtained word; and

a third spacing rule that specifies if said word encoding value that references the

obtained word in the compressed EPG data directly follows one said character encoding

value in the compressed EPG data that references a letter or a number, then a space is

inserted before the obtained word.

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38. (Original) A client device as described in claim 35, further comprising a

tuner for receiving the compressed EPG data that is broadcast over a broadcast

network.

39. (Withdrawn) A client device comprising:

a processor; and

a memory configured to maintain:

a word table that includes a plurality of word encoding values and a

plurality of words, each said word encoding value referencing one said word,

each said word encoding value having a matching predetermined amount of bits,

one to another:

compressed electronic program guide (EPG) data that includes a plurality

of television programs, each said television program having one or more

encoding values, each said encoding value encoding at least a portion of a value

that describes a television program characteristic of the television program; and

a search routine that is executable on the processor to:

compare a keyword with the plurality of words in the word table,

wherein:

when the keyword matches one of the plurality of words in

the word table, then examine to find the keyword the encoding

values in the compressed EPG data that have the predetermined

amount of bits; and

when the keyword does not match any of the plurality of

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words in the word table, then examine to find the keyword the

encoding values in the compressed EPG data that do not have the

predetermined amount of bits: and

when one said value which describes one said television program

characteristic that includes the keyword is found, outputting the one said

value.

40. (Withdrawn) A client device as described in claim 39, wherein encoding

values that do not have the matching predetermined amount of bits are character

encoding values.

41. (Withdrawn) A client device as described in claim 39, wherein:

the encoding values that do not have the matching predetermined amount of

bits are character encoding values; and

the character encoding values have a second matching predetermined amount

of bits, one to another, that do not match the matching predetermined amount of bits of

the word encoding values.

42. (Withdrawn) A client device as described in claim 39, wherein:

encoding values that do not have the predetermined amount of bits are

character encoding values;

each of the character encoding values have eight bits; and

each of the word encoding values have twelve bits.

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43. (Withdrawn) A client device as described in claim 39, further comprising

a tuner for receiving the compressed EPG data that is broadcast over a broadcast

network.

44. (Withdrawn) A client device comprising:

a processor; and

a memory configured to maintain:

EPG data that includes a plurality of television programs, each said

television program having a corresponding event identifier that identifies one or

more values that describe respective one or more television program

characteristics, wherein each said event identifier includes a bin identifier and a

unique identifier: and

an EPG application that is executable on the processor to:

search for the one or more values of a desired said television

program in the EPG data utilizing the event identifier that corresponds to

the desired said television program by:

locating a bin that matches the bin identifier included in the

event identifier; and

matching a unique identifier included in the event identifier

with a unique identifier included in the located bin, wherein the

matching unique identifier in the located bin maps to the one or

more values of the desired said television program; and

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output the mapped one or more values.

45. (Withdrawn) A client device as described in claim 44, wherein the event

identifiers are assigned for a predetermined amount of time that corresponds to an

amount of broadcast time described by the EPG data.

46. (Withdrawn) A client device as described in claim 44, wherein the bin is

located from a plurality of bins, each said bin having one or more unique identifiers.

47. (Withdrawn) A client device as described in claim 44, wherein:

the bin is located from a plurality of bins, each said bin having one or more

unique identifiers; and

each bin corresponds to a unique range of characters.

48. (Withdrawn) A client device as described in claim 44, wherein the event

identifier is described using eighteen bits, and includes:

six bits thereof utilized by the corresponding said bin identifier; and

twelve bits thereof utilized by the corresponding said unique identifier.

49. (Withdrawn) A client device as described in claim 44, further comprising:

receiving the EPG data; and

storing the unique identifier included in the event identifier in one of a plurality of

bins, wherein the unique identifier is stored in the bin that matches the bin identifier

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included in the corresponding event identifier.

50. (Withdrawn) A client device as described in claim 44, further comprising

a tuner for receiving the EPG data that is broadcast over a broadcast network.

51. (Original) An electronic program guide (EPG) server comprising:

a processor; and

a memory configured to maintain:

EPG data that includes a plurality of television programs, each television

program having one or more television program characteristics, each television

program characteristic having a value, each said value having one or more

characters:

a word table including one or more words and one or more word encoding

values, each said word encoding value references one said word;

a character table including one or more characters and one or more

character encoding values, wherein each said character encoding value

references one or more said characters in the character table; and

an EPG application that is executable on the processor to:

compare the one or more characters of each said value with the

one or more words in the word table to find a match, and for each said

match, replacing the matching one or more characters of each said value

with the word encoding value in the word table that references the

matching word;

compare the one or more characters of each said value that do not

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match any of the words in the word table with the one or more characters

in the character table to find a match, and for each said match, replacing

the matching one or more characters of each said value with the character

encoding value in the character table that references the matching one or

more characters; and

apply one or more spacing rules to the EPG data that are based on

an arrangement of each said word encoding value with respect to at least

one of:

one said character encoding value; and

one other said word encoding value.

52. (Original) An EPG server as described in claim 51, wherein the EPG

application is executable on the processor to output the EPG data to which the spacing

rule was applied.

53. (Original) An EPG server as described in claim 51, wherein each said

spacing rule specifies removal of each said character encoding value from the EPG

data that references a space based upon a condition selected from the group consisting

of:

the character encoding value that references the space is disposed directly

between two said word encoding values;

the character encoding value that references the space directly follows one said

word encoding value and directly precedes one said character encoding value that

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references a letter or a number in the character table; and

the character encoding value that references the space directly precedes one

said word encoding value and directly follows one said character encoding value that

references a letter or a number in the character table.

54. (Original) An EPG server as described in claim 51, wherein the EPG

server further comprises a broadcast transmitter that is configured to broadcast the

EPG data to which the one or more spacing rules were applied over a broadcast

network.

55. (Withdrawn) An EPG server comprising:

a processor; and

a memory configured to maintain:

EPG data that includes a plurality of television programs, each said

television program having one or more television program characteristics, each

said television program characteristic having a value, wherein one of the

television program characteristics is a program title; and

an EPG application that is executable on the processor to:

assign an event identifier to each said television program, wherein

the event identifier includes:

a bin identifier selected from a plurality of bin identifiers

based on a portion of the value of the program title of a

corresponding said television program; and

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a unique identifier that is unique for each said television

program that has a bin identifier that matches at least one other bin

identifier assigned to at least one other said television program; and

output the EPG data having the assigned event identifiers.

56. (Withdrawn) An EPG server as described in claim 55, wherein the event

identifiers are assigned for a predetermined amount of time that corresponds to an

amount of broadcast time described by the EPG data.

57. (Withdrawn) An EPG server as described in claim 55, wherein the event

identifier references the value of the corresponding said television program.

58. (Withdrawn) An EPG server as described in claim 55, wherein each of

the plurality of bin identifiers are predefined to correspond to a unique range of

characters of the portion of the value of the program title.

59. (Withdrawn) An EPG server as described in claim 55, wherein the event

identifier is described using eighteen bits, and includes:

six bits thereof utilized by the corresponding said bin identifier; and

twelve bits thereof utilized by the corresponding said unique identifier.

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60. (Withdrawn) An EPG server as described in claim 55, wherein the EPG server further comprises a broadcast transmitter that is configured to broadcast the output EPG data over a broadcast network.

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